

**AD643352**

**ANNUAL JOB COMPLETION REPORT**

**MARSH ECOLOGY RESEARCH**

**April 1, 1965 to March 31, 1966**

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**Department of Agronomy  
Cornell University  
Ithaca, New York**

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TABLE 1  
CORNELL NO. 1 MARSH ECOLOGY

### Temperature, Alkalinity and Oxygen Determinations

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
6/12/65	9:40	Surface	20.0	9.2	7.0	43	1.0
	9:40	1/2'	--	9.2	6.6	45	-
	9:40	1'	--	9.2	6.0	46	-
	(A.M.)	9:40	1-1/2'	--	9.2	6.3	44
	9:40	2'	--	9.2	6.6	43	0.9
	9:40	2-1/2'	20.0	9.1	6.3	55	-
6/18/65	9:55	Surface	16.0	9.2	9.6	30	-
	9:55	1/2'	--	9.0	8.7	24	0.6
	9:55	1'	--	8.9	8.3	22	-
	(A.M.)	9:55	1-1/2'	--	8.9	7.9	23
	9:55	2'	--	8.3	5.4	30	-
	9:55	2-1/2'	15.5	8.3	5.4	30	-
6/28/65	11:30	Surface	23.0	9.6	8.2	23	0.9
	11:30	1/2'	--	9.7	8.1	27	-
	11:30	1'	--	9.7	8.4	25	-
	(A.M.)	11:30	1-1/2'	--	9.7	7.8	25
	11:30	2'	--	9.7	7.1	24	-
	11:30	2-1/2'	22.0	9.7	7.1	24	-
7/5/65	8:40	Surface	20.5	8.9	6.4	24	0.6
	8:40	1/2'	--	8.9	6.3	25	-
	8:40	1'	--	9.0	6.3	25	-
	(A.M.)	8:40	1-1/2'	--	8.9	6.1	25
	8:40	2'	--	8.9	6.1	25	-
	8:40	2-1/2'	19.0	8.9	6.1	29	-
7/13/65	9:15	Surface	20.0	9.4	6.8	24	0.5
	9:15	1/2'	--	9.4	6.6	25	-
	9:15	1'	--	9.4	6.8	25	-
	(A.M.)	9:15	1-1/2'	--	9.4	6.9	25
	9:15	2'	--	9.4	6.9	23	-
	9:15	2-1/2'	20.0	9.4	6.5	26	0.4
7/19/65	9:45	Surface	21.0	8.9	6.5	30	0.5
	9:45	1/2'	--	8.9	5.9	29	-
	9:45	1'	--	9.0	6.0	29	-
	(A.M.)	9:45	1-1/2'	--	9.0	6.2	28
	9:45	2'	--	9.1	6.2	26	-
	9:45	2-1/2'	21.0	9.0	6.4	30	-
7/26/65	10:15	Surface	24.5	9.4	7.1	29	0.7
	10:15	1/2'	--	9.5	7.1	28	-
	10:15	1'	--	9.5	6.6	29	-
	(A.M.)	10:15	1-1/2'	--	9.6	7.6	27
	10:15	2'	--	9.5	7.1	29	-
	10:15	2-1/2'	24.0	9.5	7.1	29	-

TABLE 1 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
8/2/65	8:35	Surface	18.0	9.1	8.2	34	0.6
	8:35	1/2'	--	9.2	6.8	28	-
	8:35	1'	--	9.2	7.6	32	-
	(A.M.)	8:35	1-1/2'	--	9.2	7.9	26
	8:35	2'	--	9.2	6.8	30	-
	8:35	2-1/2'	17.8	9.2	7.0	32	-
8/9/65	8:45	Surface	24.0	9.2	5.8	26	0.4
	8:45	1/2'	--	9.2	6.6	27	-
	8:45	1'	--	9.2	5.2	25	-
	(A.M.)	8:45	1-1/2'	--	9.2	6.7	28
	8:45	2'	--	9.3	5.2	31	-
	8:45	2-1/2'	24.0	9.2	5.5	27	-
8/16/65	8:45	Surface	21.5	9.6	7.9	26	.5
	8:45	1/2'	--	9.5	7.1	30	-
	8:45	1'	--	9.5	7.1	30	-
	(A.M.)	8:45	1-1/2'	--	9.5	7.2	28
	8:45	2'	--	9.5	7.8	30	-
	8:45	2-1/2'	21.0	9.5	7.2	30	-
8/23/65	9:10	Surface	22.0	8.5	8.39	32	0.4
	9:10	1/2'	--	8.6	7.30	35	-
	9:10	1'	--	8.5	7.63	30	-
	(A.M.)	9:10	1-1/2'	--	8.5	7.52	28
	9:10	2'	--	8.5	7.85	29	-
	9:10	2-1/2'	21.5	8.5	8.18	27	-
8/30/65	3:50	Surface	13.5	8.9	12.32	24	0.3
	3:50	1/2'	--	6.4	8.72	19	-
	3:50	1'	--	6.4	10.36	13	-
	(P.M.)	3:50	1-1/2'	--	6.5	7.96	17
	3:50	2'	--	9.0	8.28	25	-
	3:50	2-1/2'	13.0	9.2	8.07	23	-
9/8/65	9:00	Surface	20.0	8.9	8.6	28	.6
	9:00	1/2'	--	9.0	7.1	30	-
	9:00	1'	--	9.0	8.7	30	-
	(A.M.)	9:00	1-1/2'	--	9.0	8.3	30
	9:00	2'	--	9.0	8.5	38	-
	9:00	2-1/2'	19.5	9.0	8.6	38	-
9/15/65	11:20	Surface	17.0	8.3	8.4	27	0
	11:20	1/2'	--	8.5	7.9	28	-
	11:20	1'	--	8.5	7.8	27	-
	(A.M.)	11:20	1-1/2'	--	8.4	7.4	27
	11:20	2'	--	8.5	7.4	28	-
	11:20	2-1/2'	17.0	8.2	6.2	31	0

TABLE 2

## CORNELL NO. 1 MARSH ECOLOGY

Pond No. - New 2  
Old 3

1965

Temperature, Alkalinity and Oxygen Determinations

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
6/12/65	9:25	Surface	20.0	9.0	6.2	57	-
	9:25	1/2'	--	9.1	6.0	47	-
	9:25	1'	--	9.0	5.9	46	-
	(A.M.) 9:25	1-1/2'	--	9.1	5.6	46	-
	9:25	2'	--	9.0	5.6	45	-
	9:25	2-1/2'	--	9.0	5.6	49	-
	9:25	3'	20.0	9.0	5.4	50	-
6/18/65	9:20	Surface	16.0	9.4	9.4	19	0.3
	9:20	1/2'	--	9.4	9.0	20	0.3
	9:20	1'	--	9.4	9.2	20	-
	(A.M.) 9:20	1-1/2'	--	9.3	9.3	27	-
	9:20	2'	--	9.3	9.0	20	-
	9:20	2-1/2'	--	9.3	9.0	20	-
	9:20	3'	15.0	9.3	9.0	20	-
6/28/65	11:55	Surface	23.0	9.6	9.0	26	1.1
	11:55	1/2'	--	9.6	8.8	26	-
	11:55	1'	--	9.6	8.6	24	-
	(A.M.) 11:55	1-1/2'	--	9.5	8.8	24	-
	11:55	2'	--	9.5	10.3	22	-
	11:55	2-1/2'	--	8.9	6.8	30	-
	11:55	3'	22.5	8.9	6.8	30	-
7/6/65	9:05	Surface	21.0	8.7	7.2	27	0.6
	9:05	1/2'	--	8.8	7.1	26	-
	9:05	1'	--	8.9	6.7	24	-
	(A.M.) 9:05	1-1/2'	--	8.9	7.2	25	-
	9:05	2'	--	8.9	7.3	23	-
	9:05	2-1/2'	--	8.9	7.2	25	-
	9:05	3'	20.0	8.9	7.2	25	-
7/13/65	9:30	Surface	20.0	9.3	7.4	27	0.3
	9:30	1/2'	--	9.3	7.0	27	-
	9:30	1'	--	9.3	6.9	25	-
	(A.M.) 9:30	1-1/2'	--	9.3	7.2	26	0.5
	9:30	2'	--	9.3	7.3	25	-
	9:30	2-1/2'	--	9.3	6.8	26	-
	9:30	3'	20.0	9.3	7.2	27	0.6
7/19/65	10:00	Surface	21.0	8.7	5.3	33	0.3
	10:00	1/2'	--	8.6	5.3	33	-
	10:00	1'	--	8.6	5.3	32	-
	(A.M.) 10:00	1-1/2'	--	8.7	5.2	31	-
	10:00	2'	--	8.7	5.7	33	-
	10:00	2-1/2'	--	8.6	4.6	36	-
	10:00	3'	20.5	8.7	4.8	31	-

TABLE 2 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
7/26/65	10:00	Surface	24.5	9.0	6.5	29	-
	10:00	1/2'	--	9.0	6.4	29	0.7
	10:00	1'	--	9.1	6.2	29	-
	10:00	1-1/2'	--	9.3	6.7	32	-
	10:00	2'	--	9.1	6.7	35	-
	10:00	2-1/2'	--	9.1	6.3	29	-
	10:00	3'	24.0	8.9	6.0	34	-
	8:50	Surface	18.0	8.4	7.2	38	-
	8:50	1/2'	--	8.3	6.7	46	0
	8:50	1'	--	8.3	6.7	35	-
A.M.	8:50	1-1/2'	--	8.3	7.2	43	-
	8:50	2'	--	8.3	6.7	42	-
	8:50	2-1/2'	--	8.0	6.6	49	-
	8:50	3'	18.0	8.3	7.5	41	-
	9:10	Surface	24.0	8.8	6.6	30	-
	9:10	1/2'	--	8.8	6.2	31	0.4
	9:10	1'	--	8.8	6.5	31	-
A.M.	9:10	1-1/2'	--	8.8	6.5	31	-
	9:10	2'	--	8.7	7.4	33	-
	9:10	2-1/2'	--	8.8	6.2	30	-
	9:10	3'	24.0	8.7	6.0	34	-
8/16/65	9:30	Surface	21.5	9.3	8.2	30	-
	9:30	1/2'	--	9.1	7.6	32	0.5
	9:30	1'	--	9.1	7.1	38	-
	9:30	1-1/2'	--	9.2	7.9	33	-
	9:30	2'	--	9.2	6.8	30	-
	9:30	2-1/2'	21.0	9.2	7.7	31	-
	9:30	3'	--	9.2	6.6	34	-
8/23/65	9:20	Surface	22.0	8.4	7.96	37	-
	9:20	1/2'	--	8.2	7.10	35	0
	9:20	1'	--	8.0	8.94	36	-
	9:20	1-1/2'	--	8.1	7.74	41	-
	9:20	2'	--	8.1	8.50	35	-
	9:20	2-1/2'	--	8.1	7.19	36	-
	9:20	3'	21.5	8.1	7.63	37	-
8/31/65	8:55	Surface	12.0	9.0	10.59	28	-
	8:55	1/2'	--	9.0	9.16	35	-
	8:55	1'	--	9.0	10.25	31	-
	8:55	1-1/2'	--	9.0	8.83	35	-
	8:55	2'	--	9.0	8.72	33	-
	8:55	2-1/2'	--	9.0	8.50	33	-
	8:55	3'	12.0	9.0	9.59	31	-
9/7/65	4:15	Surface	23.0	8.8	9.8	33	-
	4:15	1/2'	--	8.9	9.1	36	0.4
	4:15	1'	--	8.9	11.1	31	-
	4:15	1-1/2'	--	8.9	10.4	36	-
	4:15	2'	--	8.9	9.7	39	-
	4:15	2-1/2'	--	8.8	9.8	37	-
	4:15	3'	23.0	8.8	10.3	42	-

TABLE 2. (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
9/15/65	11:30	Surface	17.0	8.2	8.2	34	0
	11:30	1/2'	--	8.2	7.3	34	-
	11:30	1'	--	8.2	7.4	35	-
	(A.M.)	1-1/2'	--	8.2	7.1	35	-
	11:30	2'	--	8.2	7.0	35	-
	11:30	2-1/2'	--	8.2	7.0	35	-
	11:30	3'	17.0	8.1	6.1	35	0

TABLE 3

## CORNELL NO. 1 MARSH ECOLOGY

Lond No. - New 3  
Old 5

1965

Temperature, Alkalinity and Oxygen Determinations

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
6/1/65	9:05	Surface	19.5	8.9	5.2	43	0.8
	9:05	1/2'	--	8.9	4.9	42	0.8
	A.M.	1'	--	8.95	4.7	43	0.8
	9:05	1-1/2'	19.5	8.95	4.6	30	0.7
6/8/65	10:30	Surface	15.5	6.8	9.4	13	0
	10:30	1/2'	--	9.0	9.2	23	0.4
	A.M.	1'	--	9.0	9.3	20	0.4
	10:30	1-1/2'	15.0	9.0	9.3	20	0.4
6/28/65	12:20	Surface	24.5	9.5	9.4	25	1.1
	12:20	1/2'	--	9.5	9.1	24	-
	"	1'	--	9.5	9.2	24	-
	12:20	1-1/2'	24.5	9.5	9.0	28	-
7/6/65	9:20	Surface	21.0	8.8	7.6	24	0.8
	9:20	1/2'	--	8.8	7.3	23	-
	A.M.	1'	--	8.8	6.8	25	-
	9:20	1-1/2'	20.5	8.8	7.0	28	-
7/13/65	9:45	Surface	20.0	9.3	7.2	23	0.4
	9:45	1/2'	--	9.3	6.9	25	-
	A.M.	1'	--	9.3	7.1	25	-
	9:45	1-1/2'	20.0	9.3	6.8	24	-
7/19/65	10:20	Surface	21.0	8.8	7.0	25	0.6
	10:20	1/2'	--	8.9	7.4	27	-
	A.M.	1'	--	8.9	7.0	25	-
	10:20	1-1/2'	21.0	8.9	6.6	26	-
7/26/65	9:30	Surface	24.5	9.1	5.8	29	0.4
	9:30	1/2'	--	9.1	5.6	30	-
	A.M.	1'	--	9.1	6.1	25	-
	9:30	1-1/2'	24.0	9.1	5.7	26	-
8/1/65	9:15	Surface	18.0	8.3	6.8	30	0.1
	9:15	1/2'	--	8.4	6.4	33	-
	A.M.	1'	--	8.4	6.8	35	-
	9:15	1-1/2'	18.0	8.5	6.5	33	-
8/2/65	9:40	Surface	24.0	8.7	6.3	29	0.3
	9:40	1/2'	--	8.7	6.5	34	-
	A.M.	1'	--	8.7	5.6	32	-
	9:40	1-1/2'	23.0	8.7	6.5	30	-

TABLE 3 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
8/16/65	9:45	Surface	21.5	8.8	5.9	39	0.1
	9:45	1/2'	--	8.7	5.8	37	-
	9:45	1'	--	8.7	6.7	38	-
	9:45	1-1/2'	21.0	9.0	8.0	35	-
8/23/65	10:30	Surface	22.0	8.0	8.94	44	0
	10:30	1/2'	--	8.1	7.96	42	-
	(A.M.) 10:30	1'	--	8.2	8.61	42	-
	10:30	1-1/2'	21.5	8.1	8.83	41	-
8/31/65	9:40	Surface	12.0	8.6	9.37	31	0.1
	9:40	1/2'	--	8.6	9.59	32	-
	(A.M.) 9:40	1'	--	8.6	9.27	30	-
	9:40	1-1/2'	12.0	8.6	8.72	35	-
9/7/65	4:10	Surface	23.0	9.1	11.1	40	0.5
	4:10	1/2'	--	9.1	10.0	40	-
	(P.M.) 4:10	1'	--	9.1	11.3	35	-
	4:10	1-1/2'	23.0	9.1	11.1	35	-
9/15/65	11:45	Surface	17.0	7.9	7.5	34	0
	11:45	1/2'	--	8.0	7.4	34	-
	(A.M.) 11:45	1'	--	8.2	7.4	34	-
	11:45	1-1/2'	17.0	8.1	7.2	34	0

TABLE 4  
CORNELL NO. 1 MARSH ECOLOGY

Old No. - New 4  
Old 7

1965

Temperature, Alkalinity and Oxygen Determinations

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Stenophthalimide Alkalinity
6/11/65	3:53	Surface	25.0	9.5	8.0	48	0.1
	3:53	1/2'	--	9.6	7.3	46	-
	3:53	1'	--	9.6	7.2	45	-
	3:53	1-1/2'	--	9.7	7.6	44	-
	3:53	2'	--	9.6	7.2	42	-
	3:53	2-1/2'	24.0	8.9	4.7	55	0.1
6/18/65	11:20	Surface	16.5	9.5	10.1	20	0.5
	11:20	1/2'	--	9.5	9.8	20	-
	11:20	1'	--	9.5	10.0	20	-
	11:20	1-1/2'	--	9.5	9.9	20	-
	11:20	2'	--	9.5	9.2	20	-
	11:20	2-1/2'	16.0	9.5	9.2	20	-
6/28/65	2:10	Surface	25.0	9.7	9.4	20	1.0
	2:10	1/2'	--	9.7	9.0	20	-
	2:10	1'	--	9.7	9.5	20	-
	2:10	1-1/2'	--	9.8	9.9	22	-
	2:10	2'	--	9.7	9.6	22	-
	2:10	2-1/2'	25.0	9.7	9.6	22	-
7/6/65	9:35	Surface	20.5	8.5	7.5	22	0.2
	9:35	1/2'	--	8.8	6.7	24	-
	9:35	1'	--	9.0	7.3	23	-
	9:35	1-1/2'	--	9.0	6.8	21	-
	9:35	2'	--	9.0	6.9	22	-
	9:35	2-1/2'	20.0	9.0	7.1	22	-
7/13/65	10:30	Surface	20.0	9.6	8.0	20	0.5
	10:30	1/2'	--	9.6	7.9	20	-
	10:30	1'	--	9.7	8.0	22	-
	10:30	1-1/2'	--	9.7	7.8	23	-
	10:30	2'	--	9.7	7.8	22	-
	10:30	2-1/2'	20.0	9.6	8.0	21	0.5
7/19/65	10:30	Surface	21.0	9.3	7.4	31	0.6
	10:30	1/2'	--	9.2	6.9	29	-
	10:30	1'	--	9.3	7.1	28	-
	10:30	1-1/2'	--	9.3	7.1	26	-
	10:30	2'	--	9.2	6.8	25	-
	10:30	2-1/2'	21.5	9.3	7.4	24	-

TABLE 4 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Tot ' Alkalinity	Phenolphthalein Alkalinity
7/26/65	9:15	Surface	24.0	9.7	6.7	26	0.4
	9:15	1/2'	--	9.7	6.3	24	-
	9:15	1'	--	9.7	6.2	23	-
	(A.M.)	9:15	1-1/2'	--	9.7	7.0	24
	9:15	2'	--	9.6	5.9	33	-
	9:15	2-1/2'	24.0	9.1	5.4	23	-
8/2/65	9:15	Surface	18.0	8.9	7.5	34	0.6
	9:15	1/2'	--	8.9	7.8	32	-
	9:15	1'	--	8.9	7.7	38	-
	(A.M.)	9:15	1-1/2'	--	9.0	7.3	36
	9:15	2'	--	9.0	7.7	37	-
	9:15	2-1/2'	18.0	8.9	7.2	40	-
8/9/65	10:00	Surface	24.5	9.1	6.8	32	0.6
	10:00	1/2'	--	9.1	7.5	30	-
	10:00	1'	--	9.1	6.4	27	-
	(A.M.)	10:00	1-1/2'	--	9.2	6.7	30
	10:00	2'	--	9.2	6.4	29	-
	10:00	2-1/2'	23.0	9.1	6.6	29	-
8/16/65	10:00	Surface	22.0	9.4	8.0	26	0.4
	10:00	1/2'	--	9.3	7.0	32	-
	10:00	1'	--	9.3	6.8	34	-
	(A.M.)	10:00	1-1/2'	--	9.4	7.4	33
	10:00	2'	--	9.3	7.7	30	-
	10:00	2-1/2'	21.5	9.3	6.9	30	-
8/23/65	10:45	Surface	22.0	8.3	9.16	36	0.2
	10:45	1/2'	--	8.4	8.83	34	-
	10:45	1'	--	8.4	8.94	37	-
	(A.M.)	10:45	1-1/2'	--	8.4	8.72	35
	10:45	2'	--	8.4	9.48	35	-
	10:45	2-1/2'	21.5	8.4	9.37	35	-
8/31/65	10:00	Surface	12.0	9.0	9.70	32	0.5
	10:00	1/2'	--	9.0	9.92	32	-
	10:00	1'	--	9.0	9.70	35	-
	(A.M.)	10:00	1-1/2'	--	9.0	10.03	36
	10:00	2'	--	9.0	9.70	32	-
	10:00	2-1/2'	12.0	9.0	9.48	32	-
9/7/65	4:00	Surface	23.0	8.7	10.1	33	1.0
	4:00	1/2'	--	8.6	9.2	36	-
	4:00	1'	--	8.6	9.1	35	-
	(P.M.)	4:00	1-1/2'	--	8.6	10.0	36
	4:00	2'	--	8.5	9.9	37	-
	4:00	2-1/2'	22.5	8.5	5.7	40	-

TABLE 4 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
9/15/65	12:40	Surface	17.0	8.4	9.0	32	0
	12:40	1/2'	--	8.4	8.1	32	-
	12:40	1'	--	8.5	8.2	32	-
(P.M.)	12:40	1-1/2'	--	8.5	8.3	32	-
	12:40	2'	--	8.5	8.0	32	-
	12:40	2-1/2'	17.0	8.4	8.0	32	0

TABLE 5  
CORNELL NO. 1 MARSH ECOLOGY

Ponu No. - New 5  
Old 9

1965

Temperature, Alkalinity and Oxygen Determinations

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
6/11/65	3:35	Surface	24.0	9.2	8.4	45	1.0
	3:35	1/2'	--	9.2	8.2	48	-
	3:35	1'	--	9.4	8.2	45	-
	3:35	1-1/2'	--	9.4	8.3	46	-
	(P.M.) 3:35	2'	--	9.5	8.2	47	-
	3:35	2-1/2'	--	9.7	7.6	45	-
	3:35	3'	24.0	9.8	7.6	45	-
6/18/65	11:40	Surface	16.0	9.7	10.3	17	0.6
	11:40	1/2'	--	9.7	9.8	18	-
	11:40	1'	--	9.7	9.3	20	-
	(A.M.) 11:40	1-1/2'	--	9.7	9.8	20	-
	11:40	2'	--	9.7	8.9	20	-
	11:40	2-1/2'	--	9.7	8.9	20	-
	11:40	3'	17.0	9.7	8.9	20	-
6/28/65	2:30	Surface	26.0	9.8	9.2	22	0.9
	2:30	1/2'	--	9.9	8.9	20	-
	2:30	1'	--	9.9	8.9	23	-
	(P.M.) 2:30	1-1/2'	--	9.9	9.5	20	-
	2:30	2'	--	9.7	9.4	20	-
	2:30	2-1/2'	--	9.9	10.4	20	-
	2:30	3'	25.0	9.7	8.8	22	-
7/6/65	9:50	Surface	21.0	9.6	8.9	23	0.8
	9:50	1/2'	--	9.6	7.9	25	-
	9:50	1'	--	9.6	8.0	21	-
	(A.M.) 9:50	1-1/2'	--	9.6	8.5	23	-
	9:50	2'	--	9.6	8.8	21	-
	9:50	2-1/2'	--	9.6	8.8	20	-
	9:50	3'	20.0	9.6	8.4	20	-
7/13/65	10:45	Surface	21.0	10.0	8.8	20	0.8
	10:45	1/2'	--	10.1	8.2	21	-
	10:45	1'	--	10.1	8.4	20	-
	(A.M.) 10:45	1-1/2'	--	10.1	8.4	20	-
	10:45	2'	--	10.1	8.7	20	-
	10:45	2-1/2'	--	10.1	8.8	21	-
	10:45	3'	21.0	10.1	8.2	22	0.9
7/19/65	11:15	Surface	21.5	9.7	8.1	22	0.8
	11:15	1/2'	--	9.8	8.0	24	-
	11:15	1'	--	9.8	7.8	23	-
	(A.M.) 11:15	1-1/2'	--	9.9	7.1	22	-
	11:15	2'	--	9.9	8.2	22	-
	11:15	2-1/2'	--	9.8	7.7	21	-
	11:15	3'	21.0	9.4	7.5	28	-

TABLE 5 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
(P.M.)	9/15/65 1:30	Surface	18.0	8.7	8.6	28	0.1
	1:30	1/2'	--	8.8	8.0	28	-
	1:30	1'	--	8.9	8.1	30	-
	1:30	1-1/2'	--	8.9	8.2	30	-
	1:30	2'	--	8.9	8.0	31	-
	1:30	2-1/2'	--	9.0	7.7	30	-
	1:30	3'	17.5	8.8	7.8	31	0.1

TABLE 6

## CORNELL NO. 1 MARSH ECOLOGY

Pond No. - New 6  
Old 11

1965

Temperature, Alkalinity and Oxygen Determinations

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
6/11/65	2:45	Surface	27.0	9.5	10.2	55	1.0
	2:45	1/2'	--	9.6	5.9	55	-
	(P.M.) 2:45	1'	24.0	9.0	8.0	67	-
6/18/65	2:45	Surface	21.5	9.3	12.6	28	0.4
	2:45	1/2'	--	9.3	10.5	29	0.4
	(P.M.) 2:45	1'	20.0	8.9	9.2	33	0.4
6/28/65	3:00	Surface	30.0	9.7	12.3	28	1.0
	3:00	1/2'	--	9.6	11.1	28	1.0
	(P.M.) 3:00	1'	30.0	9.5	7.2	29	1.0
7/6/65	10:05	Surface	20.0	8.6	8.6	36	0.7
	10:05	1/2'	--	8.5	6.8	36	-
	(A.M.) 10:05	1'	20.0	8.5	7.7	40	-
7/13/65	11:15	Surface	21.0	8.9	8.4	31	0.5
	11:15	1/2'	--	9.1	8.4	31	-
	(A.M.) 11:15	1'	21.0	9.1	8.3	31	-
7/19/65	11:30	Surface	21.0	8.6	8.2	41	-
	11:30	1/2'	--	8.6	6.5	42	-
	(A.M.) 11:30	1'	21.0	8.5	6.4	46	-
7/27/65	9:20	Surface	22.0	8.2	3.3	45	0
	9:20	1/2'	--	8.1	3.3	57	-
	(A.M.) 9:20	1'	22.0	8.1	3.5	49	-
8/2/65	10:00	Surface	19.0	8.4	7.2	53	0
	10:00	1/2'	--	8.3	7.2	66	-
	(A.M.) 10:00	1'	18.0	8.2	7.1	59	-
8/9/65	10:35	Surface	24.0	8.2	6.3	42	0
	10:35	1/2'	--	8.1	6.1	57	-
	(A.M.) 10:35	1'	24.0	8.0	5.6	51	-
8/16/65	11:00	Surface	23.0	8.3	6.8	56	0
	11:00	1/2'	--	8.3	6.6	56	-
	(A.M.) 11:00	1'	22.5	7.9	5.0	60	-
8/23/65	11:35	Surface	22.5	8.2	8.72	55	0
	11:35	1/2'	--	8.1	8.83	53	-
	(A.M.) 11:35	1'	22.0	8.1	9.48	54	-
8/31/65	11:40	Surface	13.0	8.5	9.3	36	0.3
	11:40	1/2'	--	8.5	10.3	30	-
	(A.M.) 11:40	1'	12.5	8.5	9.8	34	-

TABLE 6 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
9/7/65	3:25	Surface	23.0	8.9	8.2	44	0.6
	3:25	1/2'	--	9.1	11.9	43	-
	(P.M.) 3:25	1'	23.0	9.0	9.5	43	-
9/15/65	1:40	Surface	18.0	8.4	10.2	44	0
	1:40	1/2'	--	8.4	9.3	44	-
	(P.M.) 1:40	1'	18.0	8.4	9.0	44	0

TABLE 7  
CORNELL NO. 1 MARSH ECOLOGY

Fond No. - New 7  
Old 12

1965

Temperature, Alkalinity and Oxygen Determinations

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
6/11/65	1:35	Surface	24.0	9.8	8.7	47	1.0
	1:35	1/2'	--	9.8	8.4	44	1.0
	1:35	1'	--	9.8	8.2	45	1.0
	(P.M.) 1:35	1-1/2'	--	9.9	8.6	44	1.1
	1:35	2'	--	9.9	7.4	44	1.1
	1:35	2-1/2'	22.0	9.7	7.2	46	1.1
6/18/65	3:00	Surface	21.0	10.0	11.1	17	0.8
	3:00	1/2'	--	10.0	11.4	21	-
	3:00	1'	--	10.0	11.5	21	-
	(P.M.) 3:00	1-1/2'	--	10.1	12.0	20	-
	3:00	2'	--	9.5	8.1	27	-
	3:00	2-1/2'	19.0	8.8	11.1	32	-
6/28/65	3:50	Surface	26.0	10.2	11.2	21	1.2
	3:50	1/2'	--	10.2	10.8	20	-
	3:50	1'	--	10.2	10.1	25	-
	(P.M.) 3:50	1-1/2'	--	10.2	11.0	24	-
	3:50	2'	--	10.1	7.8	21	-
	3:50	2-1/2'	26.0	10.0	5.8	22	-
7/6/65	10:20	Surface	22.5	9.4	9.6	26	0.9
	10:20	1/2'	--	9.6	9.7	24	-
	10:20	1'	--	9.5	8.8	23	-
	(A.M.) 10:20	1-1/2'	--	9.6	9.3	25	-
	10:20	2'	--	9.6	8.3	26	-
	10:20	2-1/2'	21.0	9.5	6.6	25	-
7/13/65	11:30	Surface	21.0	9.8	9.2	24	1.0
	11:30	1/2'	--	9.9	9.0	22	-
	11:30	1'	--	9.9	9.3	21	-
	(A.M.) 11:30	1-1/2'	--	9.9	9.2	21	-
	11:30	2'	--	9.7	7.5	21	-
	11:30	2-1/2'	21.0	9.8	8.4	21	0.9
7/19/65	11:45	Surface	21.0	9.5	8.0	25	0.8
	11:45	1/2'	--	9.6	8.1	26	-
	11:45	1'	--	9.6	7.7	24	-
	(A.M.) 11:45	1-1/2'	--	9.6	7.4	26	-
	11:45	2'	--	9.6	7.2	31	-
	11:45	2-1/2'	21.0	9.5	6.9	29	-
7/27/65	9:15	Surface	23.0	9.3	5.0	26	0.9
	9:15	1/2'	--	9.4	5.0	25	-
	9:15	1'	--	9.5	5.1	25	-
	(A.M.) 9:15	1-1/2'	--	9.5	5.2	28	-
	9:15	2'	--	9.5	5.3	29	-
	9:15	2-1/2'	23.0	9.5	5.3	27	-

TABLE 7 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
8/2/65	10:10	Surface	19.0	9.3	8.1	36	0.7
	10:10	1/2'	--	9.3	6.6	31	-
	10:10	1'	--	9.4	7.7	31	-
	(A.M.) 10:10	1-1/2'	--	9.5	7.0	30	-
	10:10	2'	--	9.4	6.8	34	-
	10:10	2-1/2'	19.0	9.5	7.0	35	-
8/9/65	10:45	Surface	25.0	9.6	7.1	26	0.3
	10:45	1/2'	--	9.6	7.1	29	-
	10:45	1'	--	9.7	10.1	27	-
	(A.M.) 10:45	1-1/2'	--	9.6	8.3	27	-
	10:45	2'	--	9.7	6.5	26	-
	10:45	2-1/2'	24.0	9.6	5.7	27	-
8/16/65	11:20	Surface	27.0	9.7	8.5	33	0.9
	11:20	1/2'	--	9.7	8.7	25	-
	11:20	1'	--	9.7	8.5	32	-
	(A.M.) 11:20	1-1/2'	--	9.7	7.5	29	-
	11:20	2'	--	9.7	7.9	30	-
	11:20	2-1/2'	27.0	8.8	2.6	42	-
8/23/65	11:45	Surface	22.5	8.4	9.04	42	0.3
	11:45	1/2'	--	8.5	9.16	41	-
	11:45	1'	--	8.7	8.50	43	-
	(A.M.) 11:45	1-1/2'	--	8.6	8.61	40	-
	11:45	2'	--	8.7	9.37	39	-
	11:45	2-1/2'	22.0	8.6	9.70	39	-
8/31/65	11:25	Surface	13.0	8.5	10.8	42	0
	11:25	1/2'	--	8.7	10.0	44	-
	11:25	1'	--	8.8	10.4	43	-
	(A.M.) 11:25	1-1/2'	--	8.8	11.3	36	-
	11:25	2'	--	8.9	10.0	30	-
	11:25	2-1/2'	12.5	9.0	10.0	30	-
9/7/65	3:10	Surface	22.5	9.4	11.1	31	0.6
	3:10	1/2'	--	9.4	10.0	31	-
	3:10	1'	--	9.5	10.1	32	-
	(A.M.) 3:10	1-1/2'	--	9.6	11.6	30	-
	3:10	2'	--	9.4	9.9	32	-
	3:10	2-1/2'	22.5	8.9	6.0	37	-
9/15/65	1:45	Surface	18.0	9.0	9.8	25	0.2
	1:45	1/2'	--	9.0	9.2	28	-
	1:45	1'	--	9.0	9.0	31	-
	(A.M.) 1:45	1-1/2'	--	8.9	9.1	27	-
	1:45	2'	--	8.9	8.4	28	-
	1:45	2-1/2'	17.5	8.9	8.3	28	0.2

TABLE 8

## CORNELL NO. 1 MARSH ECOLOGY

Pond No. - New 8  
Old 13

1965

Temperature, Alkalinity and Oxygen Determinations

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
6/11/65	10:15	Surface	23.0	9.2	6.7	45	0.6
	10:15	1/2'	--	9.2	6.4	46	0.8
(A.M.)	10:15	1'	23.0	9.1	6.4	48	-
6/18/65	3:15	Surface	23.0	9.6	12.0	23	0.6
	3:15	1/2'	--	9.5	10.3	20	-
(P.M.)	3:15	1'	22.0	9.6	10.6	22	-
6/28/65	4:05	Surface	31.0	9.8	10.8	24	0.8
	4:05	1/2'	--	9.7	10.2	21	-
(P.M.)	4:05	1'	29.0	9.8	10.2	20	-
7/6/65	10:45	Surface	23.0	9.1	11.0	23	0.6
	10:45	1/2'	--	9.1	11.0	25	-
(A.M.)	10:45	1'	23.0	9.1	10.6	24	-
7/13/65	1:30	Surface	23.0	9.6	10.1	21	1.0
	1:30	1/2'	--	9.6	9.8	21	-
(P.M.)	1:30	1'	23.0	9.7	9.5	22	-
7/19/65	12:45	Surface	21.0	9.3	9.3	24	0.7
	12:45	1/2'	--	9.5	9.8	24	-
(P.M.)	12:45	1'	21.0	9.5	10.4	23	-
7/27/65	9:00	Surface	20.5	8.4	4.4	36	0
	9:00	1/2'	--	8.5	4.2	31	-
(A.M.)	9:00	1'	20.0	8.6	5.0	33	-
8/2/65	10:20	Surface	19.0	8.8	8.8	39	0.2
	10:20	1/2'	--	8.8	8.2	32	-
(A.M.)	10:20	1'	19.0	8.9	10.0	35	-
8/9/65	11:05	Surface	25.0	8.8	9.5	34	0.4
	11:05	1/2'	--	8.8	8.4	35	-
(A.M.)	11:05	1'	25.0	8.8	9.1	38	-
8/16/65	11:40	Surface	29.5	9.1	10.6	38	0.6
	11:40	1/2'	--	9.2	11.2	34	-
(A.M.)	11:40	1'	29.0	9.1	9.9	40	-
8/23/65	1:30	Surface	24.0	8.5	12.10	48	0.2
	1:30	1/2'	--	8.5	9.37	54	-
	1:30	1'	24.0	8.5	9.48	52	-

TABLE 8 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
8/31/65	11:50	Surface	13.0	8.7	10.6	38	0.2
	11:50	1/2'	--	8.7	9.6	37	-
	(A.M.) 11:50	1'	12.5	8.7	10.0	38	-
9/7/65	2:45	Surface	22.5	8.9	11.6	37	0.5
	2:45	1/2'	--	8.8	10.2	35	-
	(P.M.) 2:45	1'	22.5	8.9	10.0	37	-
9/15/65	2:00	Surface	18.0	8.7	9.4	34	0.1
	2:00	1/2'	--	8.7	9.2	34	-
	(P.M.) 2:00	1'	18.0	8.7	9.1	35	0.1

TABLE 9

## CORNELL NO. 1 MARSH ECOLOGY

Fond No. - New 9  
Old 15

1965

Temperature, Alkalinity and Oxygen Determinations

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
6/11/65	10:00	Surface	23.0	8.9	4.6	58	0.9
	10:00	1/2'	--	9.1	4.0	55	-
(A.M.)	10:00	1'	--	9.1	4.7	55	-
	10:00	1-1/2'	--	9.0	4.6	55	-
	10:00	2'	23.0	9.0	4.6	62	0.6
6/18/65	3:30	Surface	21.5	9.7	12.8	15	0.8
	3:30	1/2'	--	9.7	12.1	25	-
(P.M.)	3:30	1'	--	9.8	12.4	24	-
	3:30	1-1/2'	--	9.7	12.3	23	-
	3:30	2'	19.0	6.3	11.3	9	-
6/29/65	9:05	Surface	23.0	9.1	6.7	21	0.5
	9:05	1/2'	--	9.2	6.0	22	-
(A.M.)	9:05	1'	--	9.2	5.8	22	-
	9:05	1-1/2'	--	9.1	5.1	24	-
	9:05	2'	23.0	9.0	5.0	27	-
7/6/65	11:15	Surface	23.0	9.1	10.2	26	0.9
	11:15	1/2'	--	9.2	8.4	27	-
(A.M.)	11:15	1'	--	9.1	9.4	31	-
	11:15	1-1/2'	--	9.2	9.2	28	-
	11:15	2'	22.0	9.1	8.6	28	-
7/13/65	2:00	Surface	23.0	9.8	10.3	31	1.5
	2:00	1/2'	--	9.8	9.8	29	-
(P.M.)	2:00	1'	--	9.8	9.8	28	-
	2:00	1-1/2'	--	9.75	10.3	29	-
	2:00	2'	23.0	9.6	10.1	32	1.5
7/19/65	1:00	Surface	21.0	9.3	9.5	35	0.5
	1:00	1/2'	--	9.3	10.1	34	-
(A.M.)	1:00	1'	--	9.3	9.8	35	-
	1:00	1-1/2'	--	9.1	7.6	35	-
	1:00	2'	21.0	9.2	8.1	33	-
7/27/65	8:45	Surface	22.0	8.7	3.1	34	0
	8:45	1/2'	--	8.5	3.1	32	-
(A.M.)	8:45	1'	--	8.5	4.2	43	-
	8:45	1-1/2'	--	8.3	3.5	42	-
	8:45	2'	21.0	8.4	3.3	40	-
8/1/65	10:40	Surface	20.0	8.6	8.3	41	0.2
	10:40	1/2'	--	8.7	7.4	37	-
(A.M.)	10:40	1'	--	8.8	8.6	43	-
	10:40	1-1/2'	--	8.8	7.1	40	-
	10:40	2'	19.5	8.8	7.4	41	-

TABLE 9 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
8/9/65	11:15	Surface	25.0	9.1	7.8	33	0.8
	11:15	1/2'	--	9.2	7.7	32	-
	11:15	1'	--	9.3	7.5	29	-
	11:15	1-1/2'	--	9.2	7.5	37	-
	11:15	2'	25.0	8.7	7.3	30	-
8/16/65	1:00	Surface	29.0	9.4	9.6	42	1.0
	1:00	1/2'	--	9.6	10.0	39	-
	1:00	1'	--	9.5	9.2	38	-
	1:00	1-1/2'	--	9.4	10.1	38	-
	1:00	2'	29.0	9.4	10.2	36	-
'P.M.)	1:35	Surface	24.0	8.6	10.03	41	0.2
	1:35	1/2'	--	8.7	10.46	43	-
	1:35	1'	--	8.7	10.57	41	-
	1:35	1-1/2'	--	8.7	11.66	44	-
	1:35	2'	23.5	8.7	11:45	45	-
(N)	12:00	Surface	13.0	9.0	12.3	34	0.4
	12:00	1/2'	--	9.0	9.9	34	-
	12:00	1'	--	9.0	11.6	35	-
	12:00	1-1/2'	--	9.0	10.0	31	-
	12:00	2'	12.0	9.0	10.3	33	-
(P.M.)	2:30	Surface	22.5	9.2	11.6	35	0.9
	2:30	1/2'	--	9.3	10.3	33	-
	2:30	1'	--	9.4	9.6	34	-
	2:30	1-1/2'	--	9.5	10.9	35	-
	2:30	2'	22.5	9.0	6.7	38	-
9/15/65	2:05	Surface	18.0	8.6	9.4	37	0
	2:05	1/2'	--	8.7	8.7	35	-
	2:05	1'	--	8.7	8.8	35	-
	2:05	1-1/2'	--	8.7	8.5	36	-
	2:05	2'	17.5	8.6	8.3	35	0

TABLE 10  
CORNELL NO. 1 MARSH ECOLOGY

Pond No. - New 10  
Old 17

1965

Temperature, Alkalinity and Oxygen Determinations

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
6/10/65	3:20	Surface	26.6	9.7	9.4	50	1.1
	3:20	1/2'	26.5	9.7	9.3	49	1.1
	(P.M.) 5:20	1'	26.6	9.7	9.2	52	-
	3:20	1-1/2'	26.6	9.7	9.2	51	1.2
	3:20	2'	26.6	9.6	9.0	50	0.9
6/21/65			Water level was <u>very</u> low and water turbid, so O <sub>2</sub> samples were not taken on this cycle. This pond leaks badly.				
6/29/65	9:20	Surface	24.5	9.4	7.8	23	1.0
	9:20	1/2'	--	9.5	7.2	22	1.0
	(A.M.) 9:20	1'	--	9.5	6.8	20	1.0
	9:20	1-1/2'	--	9.5	7.3	24	1.1
	9:20	2'	23.5	9.3	7.1	21	1.0
7/6/65	1:10	Surface	25.0	10.0	12.5	28	1.2
	1:10	1/2'	--	10.1	12.5	26	-
	(P.M.) 1:10	1'	--	10.1	12.6	21	-
	1:10	1-1/2'	--	10.1	12.7	22	-
	1:10	2'	25.0	9.9	11.5	30	-
7/13/65	2:15	Surface	25.0	10.1	10.1	20	1.2
	2:15	1/2'	--	10.2	10.1	21	-
	(P.M.) 2:15	1'	--	10.1	10.5	22	-
	2:15	1-1/2'	--	10.15	10.4	21	-
	2:15	2'	25.0	9.9	10.2	23	1.0
7/19/65	1:20	Surface	23.0	5.9	10.9	10	0.0
	1:20	1/2'	--	9.9	10.3	26	0.9
	(P.M.) 1:20	1'	--	9.9	11.5	30	-
	1:20	1-1/2'	--	10.0	10.8	26	-
	1:20	2'	23.0	10.0	11.4	26	-
7/26/65	3:45	Surface	27.0	10.0	11.1	24	0.8
	3:45	1/2'	--	10.0	11.1	24	-
	(P.M.) 3:45	1'	--	9.9	12.0	23	-
	3:45	1-1/2'	--	10.0	11.5	27	-
	3:45	2'	26.0	9.9	9.6	24	-
8/2/65	10:50	Surface	20.0	9.6	9.5	34	0.7
	10:50	1/2'	--	9.7	9.2	31	-
	(A.M.) 10:50	1'	--	9.8	9.8	35	-
	10:50	1-1/2'	--	9.8	10.7	34	-
	10:50	2'	19.5	9.7	10.1	34	-

TABLE 10 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
8/9/65	1:30	Surface	28.0	10.1	9.4	24	0.9
	1:30	1/2'	--	10.1	10.1	27	-
	1:30	1'	--	10.1	9.9	25	-
	1:30	1-1/2'	--	10.1	10.6	23	-
	1:30	2'	26.0	9.5	6.7	23	-
(P.M.)	1:35	Surface	29.5	10.1	10.9	30	0.9
	1:35	1/2'	--	10.1	11.7	30	-
	1:35	1'	--	10.1	8.8	28	-
	1:35	1-1/2'	--	10.1	9.8	31	-
	1:35	2'	29.0	9.7	6.9	33	-
8/16/65	2:05	Surface	24.0	9.5	12.21	33	1.2
	2:05	1/2'	--	9.5	11.88	30	-
	2:05	1'	--	9.5	10.25	25	-
	2:05	1-1/2'	--	9.5	11.99	29	-
	2:05	2'	23.5	9.5	11.66	30	-
(P.M.)	1:20	Surface	13.5	9.5	13.1	26	0.8
	1:20	1/2'	--	9.5	11.4	25	-
	1:20	1'	--	9.5	10.6	27	-
	1:20	1-1/2'	--	9.5	10.4	27	-
	1:20	2'	13.0	9.5	9.8	26	-
8/31/65	2:10	Surface	21.5	9.4	12.2	31	1.0
	2:10	1/2'	--	9.4	11.8	29	-
	2:10	1'	--	9.4	12.0	27	-
	2:10	1-1/2'	--	9.4	8.5	35	-
	2:10	2'	21.5	9.4	8.5	35	-
(P.M.)	2:45	Surface	18.0	9.2	9.4	24	0.3
	2:45	1/2'	--	9.2	8.8	24	-
	2:45	1'	--	9.3	8.7	24	-
	2:45	1-1/2'	--	9.3	9.0	24	-
	2:45	2'	18.0	9.2	8.6	24	0.3

TABLE 11  
CORNELL NO. 1 MARSH ECOLOGY

Poni No. - New 11  
Old 19

1965

Temperature, Alkalinity and Oxygen Determinations

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
6/10/65	2:35	Surface	25.9	9.4	8.9	52	0.9
	2:35	1/2'	26.0	9.4	8.9	49	-
	2:35	1'	25.1	9.5	8.7	48	-
	2:35	1-1/2'	26.1	9.4	8.6	52	-
	2:35	2'	25.9	9.5	8.6	51	1.0
6/21/65	9:20	Surface	23.0	9.2	9.7	23	0.4
	9:20	1/2'	22.5	9.2	9.5	23	-
	(A.M.) 9:20	1'	22.5	9.2	9.7	24	-
	9:20	1-1/2'	22.5	9.2	9.8	24	-
	9:20	2'	22.5	9.2	9.8	23	0.4
6/29/65	9:45	Surface	24.0	9.1	7.4	20	0.3
	9:45	1/2'	--	9.0	6.3	22	-
	(A.M.) 9:45	1'	--	9.0	5.4	13	-
	9:45	1-1/2'	--	9.0	5.4	23	-
	9:45	2'	23.0	9.0	5.2	24	-
7/6/65	1:30	Surface	24.3	9.3	10.7	27	0.7
	1:30	1/2'	--	9.3	10.2	27	-
	(P.M.) 1:30	1'	--	9.3	9.8	29	-
	1:30	1-1/2'	--	9.3	9.8	37	-
	1:30	2'	24.0	9.5	10.1	24	-
7/10/65	3:10	Surface	24.0	9.7	11.4	16	0.8
	3:10	1/2'	--	9.8	10.6	25	-
	(P.M.) 3:10	1'	--	9.8	10.2	26	-
	3:10	1-1/2'	--	9.8	10.3	26	-
	3:10	2'	24.0	9.9	9.7	27	-
7/19/65	1:30	Surface	22.5	9.4	9.2	32	0.6
	1:30	1/2'	--	9.4	9.2	25	-
	(P.M.) 1:30	1'	--	9.3	9.0	33	-
	1:30	1-1/2'	--	9.4	9.3	31	-
	1:30	2'	21.0	9.4	9.0	28	-
7/21/65	3:10	Surface	25.5	9.8	10.7	31	0.9
	3:10	1/2'	--	9.8	10.4	31	-
	(P.M.) 3:10	1'	--	9.8	10.4	34	-
	3:10	1-1/2'	--	9.8	9.7	30	-
	3:10	2'	26.0	9.7	10.0	32	-

\* Average of all determinations.

TABLE 11 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm $O_2$	Total Alkalinity	Phenolphthalein Alkalinity
8/2/65	11:00	Surface	19.5	9.0	9.0	40	0.4
	11:00	1/2'	--	9.0	7.8	37	-
	11:00	1'	--	9.1	8.3	36	-
	11:00	1-1/2'	--	9.0	9.9	34	-
	11:00	2'	19.5	9.1	9.5	36	-
8/9/65	1:45	Surface	27.5	9.4	9.5	34	0.6
	1:45	1/2'	--	9.5	8.9	31	-
	1:45	1'	--	9.5	9.8	30	-
	1:45	1-1/2'	--	9.5	7.8	29	-
	1:45	2'	27.0	9.3	8.6	33	-
8/16/65	1:55	Surface	29.0	9.6	9.6	36	0.9
	1:55	1/2'	--	9.5	9.5	36	-
	1:55	1'	--	9.5	10.2	35	-
	1:55	1-1/2'	--	9.5	9.3	36	-
	1:55	2'	29.0	9.5	11.6	31	-
8/23/65	2:45	Surface	22.0	8.7	10.03	39	0.4
	2:45	1/2'	--	8.8	10.9	41	-
	2:45	1'	--	8.7	9.48	39	-
	2:45	1-1/2'	--	8.8	10.25	42	-
	2:45	2'	22.0	8.8	9.27	38	-
8/31/65	1:40	Surface	13.5	9.0	10.8	35	0.4
	1:40	1/2'	--	8.9	9.7	40	-
	1:40	1'	--	8.9	10.3	40	-
	1:40	1-1/2'	--	8.9	9.5	39	-
	1:40	2'	13.0	8.9	9.8	41	-
9/7/65	2:00	Surface	21.5	8.9	10.9	39	0.0
	2:00	1/2'	--	8.9	10.0	41	-
	2:00	1'	--	8.9	10.0	41	-
	2:00	1-1/2'	--	8.9	8.9	41	-
	2:00	2'	21.5	8.9	8.9	41	-
9/13/65	2:55	Surface	18.0	8.7	9.5	36	0.1
	2:55	1/2'	--	8.7	9.5	36	-
	2:55	1'	--	8.6	9.5	35	-
	2:55	1-1/2'	--	8.6	9.5	36	-
	2:55	2'	18.0	8.6	8.6	39	0.1

TABLE 12

## CORNELL NO. 1 MARSH ECOLOGY

Pond No. - New 12  
Old 20

1965

Temperature, Alkalinity and Oxygen Determinations

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
6/10/65	2:00	Surface	27.9	9.5	11.9	60	1.0
	2:00	1/2'	27.9	9.4	10.3	65	-
	(P.M.) 2:00	1'	27.9	8.75	9.9	63	0.8
6/21/65	10:20	Surface	21.0	9.0	8.8	31	0.4
	10:20	1/2'	22.0	8.9	8.6	32	-
	(A.M.) 10:20	1'	22.0	8.8	8.7	32	-
6/29/65	10:00	Surface	24.0	8.7	7.5	33	0.5
	10:00	1/2'	--	8.4	5.3	34	-
	(A.M.) 10:00	1'	22.5	8.3	4.7	33	-
7/6/65	1:45	Surface	24.5	9.2	13.1	33	0.7
	1:45	1/2'	--	9.2	10.4	41	-
	(P.M.) 1:45	1'	24.5	9.1	11.3	36	-
7/13/65	3:15	Surface	24.0	9.3	10.0	40	-
	3:15	1/2'	24.0	9.3	10.7	38	0.5
	(P.M.) 3:15	1'	24.0	9.3	10.7	38	-
7/19/65	1:55	Surface	25.0	8.9	10.9	46	0.4
	1:55	1/2'	--	8.9	8.2	47	-
	(P.M.) 1:55	1'	24.5	8.9	9.3	43	-
7/26/65	3:00	Surface	26.5	9.7	10.5	36	0.8
	3:00	1/2'	--	9.8	11.3	36	-
	(P.M.) 3:00	1'	26.0	9.7	11.3	33	-
8/1/65	11:20	Surface	21.0	8.7	10.0	43	0.1
	11:20	1/2'	--	8.7	8.7	45	-
	(A.M.) 11:20	1'	20.0	8.8	9.5	45	-
8/4/65	2:05	Surface	28.0	9.4	9.3	36	0.9
	2:05	1/2'	--	9.4	10.6	41	-
	(P.M.) 2:05	1'	26.0	9.3	11.7	35	-
8/10/65	2:30	Surface	29.0	9.6	12.2	40	1.0
	2:30	1/2'	--	9.8	13.2	40	-
	(P.M.) 2:30	1'	28.0	9.8	12.4	37	-
8/13/65	3:00	Surface	22.0	9.1	13.08	45	1.3
	3:00	1/2'	--	9.1	11.79	41	-
	(P.M.) 3:00	1'	22.0	9.1	11.79	43	-

TABLE 12 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm $O_2$	Total Alkalinity	Phenolphthalein Alkalinity
8/31/65	2:00	Surface	14.0	9.0	14.4	37	0.6
	2:00	1/2'	--	9.0	10.5	35	-
	(P.M.) 2:00	1'	13.5	9.0	10.7	36	-
9/1/65	1:50	Surface	21.5	8.9	12.6	41	0.9
	1:50	1/2'	--	8.9	10.9	33	-
	(P.M.) 1:50	1'	21.5	8.9	8.0	53	-
9/1/65	3:15	Surface	18.0	8.3	11.8	44	0.2
	3:15	1/2'	--	8.5	11.4	44	-
	(P.M.) 3:15	1'	18.0	8.5	11.6	44	0.2

TABLE 13

## CORNELL NO. 1 MARSH ECOLOGY

Pond No. - New 13  
Old 18

1965

Temperature, Alkalinity and Oxygen Determinations

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm $O_2$	Total Alkalinity	Phenolphthalein Alkalinity
6/10/65	1:22	Surface	25.6	9.5	8.3	47	0.8
	1:22	1/2'	25.6	9.5	8.3	47	-
	(P.M.) 1:22	1'	25.6	9.5	8.2	47	-
	1:22	1-1/2'	25.6	9.5	8.2	46	-
	1:22	2'	25.6	9.5	7.9	46	-
	1:22	2-1/2'	25.8	9.5	7.9	46	0.7
6/21/65	10:41	Surface	24.0	9.6	9.7	21	0.7
	10:41	1/2'	23.0	9.6	9.8	20	-
	(A.M.) 10:41	1'	23.0	9.6	10.0	21	0.7
	10:41	1-1/2'	23.0	9.5	10.0	20	-
	10:41	2'	23.0	9.5	10.0	22	-
	10:41	2-1/2'	23.0	9.5	10.2	21	-
6/29/65	10:10	Surface	23.5	9.4	7.6	22	0.9
	10:10	1/2'	--	9.5	5.6	25	-
	(A.M.) 10:10	1'	--	9.5	7.1	24	-
	10:10	1-1/2'	--	9.4	6.8	22	-
	10:10	2'	--	9.5	7.3	23	-
	10:10	2-1/2'	23.0	9.5	7.1	20	-
7/7/65	9:00	Surface	20.5	9.4	8.8	20	0.7
	9:00	1/2'	--	9.4	8.7	20	-
	(A.M.) 9:00	1'	--	9.4	9.6	20	-
	9:00	1-1/2'	--	9.4	8.7	20	-
	9:00	2'	--	9.5	8.7	21	-
	9:00	2-1/2'	20.0	9.5	8.3	20	-
7/13/65	3:30	Surface	25.0	9.7	10.8	22	0.1
	3:30	1/2'	--	9.7	9.2	22	-
	(P.M.) 3:30	1'	--	9.7	9.7	20	-
	3:30	1-1/2'	--	9.7	9.8	23	-
	3:30	2'	--	9.7	10.0	22	-
	3:30	2-1/2'	25.0	9.6	10.2	23	-
7/19/65	2:15	Surface	23.5	9.8	8.8	24	1.3
	2:15	1/2'	--	9.9	9.0	22	-
	(P.M.) 2:15	1'	--	9.9	8.8	22	-
	2:15	1-1/2'	--	9.9	9.2	25	-
	2:15	2'	--	9.9	9.7	25	-
	2:15	2-1/2'	23.0	9.9	9.0	25	-

TABLE 13 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
1/16/65	2:40	Surface	26.5	10.0	8.2	24	1.2
	2:40	1/2'	--	10.0	9.2	31	-
	2:40	1'	--	10.1	10.4	25	-
	2:40	1-1/2'	--	10.1	9.6	25	-
	2:40	2'	--	10.1	9.8	25	-
	2:40	2-1/2'	26.0	10.0	9.7	27	-
9/2/65	11:30	Surface	21.5	9.5	8.8	24	0.7
	11:30	1/2'	--	9.5	7.2	25	-
	11:30	1'	--	9.5	7.7	33	-
	11:30	1-1/2'	--	9.5	8.0	27	-
	11:30	2'	--	9.5	8.3	34	-
	11:30	2-1/2'	20.0	9.5	8.6	36	-
8/3/65	2:15	Surface	27.0	9.5	8.8	25	1.0
	2:15	1/2'	--	9.6	7.9	24	-
	2:15	1'	--	9.7	8.6	24	-
	2:15	1-1/2'	--	9.7	8.6	25	-
	2:15	2'	--	9.5	8.0	27	-
	2:15	2-1/2'	26.0	9.7	9.3	25	-
8/16/65	2:40	Surface	29.0	10.0	11.8	30	1.0
	2:40	1/2'	--	10.0	10.6	28	-
	2:40	1'	--	10.0	11.0	28	-
	2:40	1-1/2'	--	10.0	10.1	28	-
	2:40	2'	--	10.0	10.4	28	-
	2:40	2-1/2'	28.0	10.0	10.8	25	-
8/23/65	3:15	Surface	22.0	9.2	8.50	30	1.1
	3:15	1/2'	--	9.3	9.27	29	-
	3:15	1'	--	9.4	8.28	28	-
	3:15	1-1/2'	--	9.3	8.50	29	-
	3:15	2'	--	9.3	8.83	28	-
	3:15	2-1/2'	21.5	9.4	9.59	30	-
8/31/65	2:40	Surface	13.5	9.3	11.2	21	0.5
	2:40	1/2'	--	9.3	11.5	24	-
	2:40	1'	--	9.5	10.7	30	-
	2:40	1-1/2'	--	9.5	12.6	24	-
	2:40	2'	--	9.6	11.0	23	-
	2:40	2-1/2'	13.0	9.6	10.4	23	-
9/1/65	11:20	Surface	20.0	9.3	7.6	29	1.0
	11:20	1/2'	--	9.4	5.0	32	-
	11:20	1'	--	9.4	6.5	34	-
	11:20	1-1/2'	--	9.4	8.3	29	-
	11:20	2'	--	9.4	9.5	26	-
	11:20	2-1/2'	19.5	9.4	9.5	26	-

TABLE 13 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
9/15/65 (P.M.)	3:30	Surface	18.0	8.8	9.8	24	0.5
	3:30	1/2'	--	8.9	9.4	25	-
	3:30	1'	--	9.0	9.1	24	-
	3:30	1-1/2'	--	9.1	9.3	23	-
	3:30	2'	--	9.1	9.0	23	-
	3:30	2-1/2'	18.0	9.1	9.9	24	0.5

TABLE 14

## CORNELL NO. 1 MARSH ECOLOGY

Pond No. - New 14  
Old 16

1965

Temperature, Alkalinity and Oxygen Determinations

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm $O_2$	Total Alkalinity	Phenolphthalein Alkalinity
6/10/65	1:00	Surface	26.5	9.3	9.3	72	1.0
	1:00	1/2"	26.5	9.4	9.3	69	-
	(P.M.) 1:00	1"	26.6	9.4	9.4	68	-
	1:00	1-1/2"	25.9	9.3	9.4	67	0.9
6/21/65	12:00	Surface	23.0	9.2	9.7	29	0.6
	11:00	1/2"	23.0	9.2	10.0	29	-
	(A.M.) 11:00	1"	23.0	9.0	10.0	30	-
	11:00	1-1/2"	22.0	8.6	10.0	35	-
6/20/65	10:30	Surface	24.5	8.8	8.2	30	0.9
	10:30	1/2"	--	8.8	8.2	31	-
	(A.M.) 10:30	1"	--	8.8	8.0	32	-
	10:30	1-1/2"	24.5	8.6	7.3	35	-
6/22/65	9:10	Surface	19.0	8.2	8.7	37	0.1
	9:10	1/2"	--	8.0	7.4	42	-
	(A.M.) 9:10	1"	--	8.0	7.3	42	-
	9:10	1-1/2"	19.5	7.9	6.2	40	-
6/23/65	4:00	Surface	25.5	9.3	14.5	40	0.3
	4:00	1/2"	--	9.2	13.6	40	-
	(P.M.) 4:00	1"	--	9.0	14.7	35	-
	4:00	1-1/2"	25.5	8.5	10.2	43	-
6/24/65	2:30	Surface	23.5	9.5	11.7	33	0.7
	2:30	1/2"	--	9.6	11.0	31	-
	(P.M.) 2:30	1"	--	9.7	11.5	29	-
	2:30	1-1/2"	23.0	9.3	6.7	38	-
6/25/65	2:10	Surface	26.5	9.2	11.1	49	0.6
	2:10	1/2"	--	9.3	10.1	48	-
	(P.M.) 2:10	1"	--	9.3	9.7	45	-
	2:10	1-1/2"	26.0	8.1	5.6	54	-
8/1/65	11:40	Surface	21.0	8.6	9.9	63	0.3
	11:40	1/2"	--	8.5	8.7	55	-
	(A.M.) 11:40	1"	--	8.5	9.1	58	-
	11:40	1-1/2"	20.0	8.5	10.1	56	-
8/9/65	2:40	Surface	28.0	9.4	10.5	44	1.0
	2:40	1/2"	--	9.3	11.1	38	-
	(P.M.) 2:40	1"	--	9.2	7.0	40	-
	2:40	1-1/2"	25.0	9.0	7.7	44	-

TABLE 14 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm $O_2$	Total Alkalinity	Phenolphthalein Alkalinity
8/16/65	2:45	Surface	31.0	9.2	13.3	52	0.7
	2:45	1/2'	--	9.1	10.4	53	-
	2:45	1'	--	7.9	9.5	53	-
	2:45	1-1/2'	30.0	7.5	10.0	70	-
8/23/65	3:45	Surface	22.5	8.5	14.27	57	0.9
	3:45	1/2'	--	8.4	12.43	56	-
	3:45	1'	--	8.4	12.75	60	-
	3:45	1-1/2'	22.0	7.9	2.94	53	-
8/31/65	2:50	Surface	13.5	8.6	13.3	53	0.2
	2:50	1/2'	--	8.7	14.4	50	-
	2:50	1'	--	8.7	14.5	56	-
	2:50	1-1/2'	13.0	8.7	12.7	51	-
9/7/65	11:10	Surface	19.5	8.3	9.8	51	0.0
	11:10	1/2'	--	8.2	7.7	57	-
	11:10	1'	--	8.0	6.9	58	-
	11:10	1-1/2'	19.0	-	7.1	52	-
9/15/65	3:45	Surface	18.0	8.3	11.5	50	0.0
	3:45	1/2'	--	8.4	10.3	51	-
	3:45	1'	--	8.3	9.8	51	-
	3:45	1-1/2'	18.0	8.3	9.5	51	0.0

TABLE 15  
CORNELL NO. 1 MARSH ECOLOGY

Pond No. - New 15  
Old 14

1965

Temperature, Alkalinity and Oxygen Determinations

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
6/10/65	11:40	Surface	24.7	9.1	7.3	62	0.6
	11:40	1/2"	24.7	9.1	7.2	62	0.7
	(A.M.) 11:40	1"	24.7	9.1	7.0	61	0.7
	11:40	1-1/2"	24.7	9.0	6.9	54	0.0
6/21/65	11:30	Surface	24.0	9.2	9.5	28	0.6
	11:30	1/2"	24.0	~	9.5	29	-
	(A.M.) 11:30	1"	24.0	~	9.3	30	-
	11:30	1-1/2"	24.0	9.2	9.4	30	0.5
6/29/65	10:40	Surface	24.5	8.8	7.4	30	0.9
	10:40	1/2"	--	9.0	6.8	28	-
	(A.M.) 10:40	1"	--	9.0	6.7	28	-
	10:40	1-1/2"	24.0	8.9	7.1	24	-
7/11/65	9:40	Surface	19.0	9.0	8.8	27	0.8
	9:40	1/2"	--	9.0	8.7	27	-
	(A.M.) 9:40	1"	--	9.0	8.8	28	-
	9:40	1-1/2"	19.0	9.0	8.5	25	-
7/18/65	4:15	Surface	23.5	9.4	10.6	26	0.9
	4:15	1/2"	--	9.4	10.5	25	-
	(P.M.) 4:15	1"	--	9.4	10.2	25	-
	4:15	1-1/2"	23.5	9.4	10.6	30	-
7/19/65	2:45	Surface	22.5	9.6	11.2	32	1.0
	2:45	1/2"	--	9.6	10.1	27	-
	(P.M.) 2:45	1"	--	9.7	9.8	30	-
	2:45	1-1/2"	22.0	9.7	10.4	28	-
7/26/65	1:00	Surface	26.5	9.1	9.9	38	0.9
	1:00	1/2"	--	9.8	10.1	42	-
	(P.M.) 1:00	1"	--	9.8	9.6	31	-
	1:00	1-1/2"	25.0	9.8	10.9	31	-
8/2/65	12:00	Surface	20.0	9.1	9.7	39	0.9
	12:00	1/2"	--	9.1	9.2	34	-
	(Noon) 12:00	1"	--	9.2	9.7	32	-
	12:00	1-1/2"	20.0	9.3	9.7	33	-
8/9/65	3:00	Surface	28.0	9.1	8.6	32	0.8
	3:00	1/2"	--	9.1	9.5	33	-
	(P.M.) 3:00	1"	--	9.1	11.0	33	-
	3:00	1-1/2"	27.0	9.1	10.6	29	-

TABLE 15 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm $O_2$	Total Alkalinity	Phenolphthale Alkalinity
8/16/65	3:00	Surface	29.5	9.7	10.0	37	0.9
	3:00	1/2'	--	9.7	10.8	38	-
	3:00	1'	--	9.7	10.6	37	-
	3:00	1-1/2'	29.0	9.7	12.7	34	-
8/23/65	3:55	Surface	22.5	8.9	13.84	40	0.9
	3:55	1/2'	--	9.0	12.43	47	-
	3:55	1'	--	9.0	14.06	45	-
	3:55	1-1/2'	22.0	9.0	14.27	40	-
8/31/65	3:00	Surface	13.5	9.0	12.7	33	0.6
	3:00	1/2'	--	9.1	11.7	40	-
	3:00	1'	--	9.1	11.0	34	-
	3:00	1-1/2'	13.0	9.1	11.9	34	-
9/7/65	11:00	Surface	19.5	8.8	8.7	40	0.5
	11:00	1/2'	--	8.8	7.6	41	-
	11:00	1'	--	8.8	7.6	41	-
	11:00	1-1/2'	19.0	8.8	7.6	41	-
9/15/65	4:00	Surface	18.0	8.7	10.7	35	0.2
	4:00	1/2'	--	8.8	10.4	35	-
	4:00	1'	--	8.7	10.5	35	-
	4:00	1-1/2'	18.0	8.7	10.5	35	0.3

TABLE 16  
CORNELL NO. 1 MARSH ECOLOGY

Pond No. - New 16  
Old 10

1965

Temperature, Alkalinity and Oxygen Determinations

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
6/10/65	11:10	Surface	24.2	9.2	7.7	50	0.8
	11:10	1/2'	24.1	9.1	6.6	49	0.8
	(A.M.) 11:10	1'	24.1	9.2	7.3	50	0.8
	11:10	1-1/2'	24.1	9.2	6.7	47	0.6
6/21/65	1:00	Surface	25.0	9.8	12.0	22	0.8
	1:00	1/2'	25.5	9.8	11.5	22	-
	(P.M.) 1:00	1'	25.5	9.9	11.5	22	-
	1:00	1-1/2'	25.5	9.9	11.5	22	0.8
6/28/65	9:15	Surface	21.0	9.2	7.5	23	0.6
	9:15	1/2'	--	9.2	6.5	23	-
	(A.M.) 9:15	1'	--	9.2	6.8	22	-
	9:15	1-1/2'	21.0	9.2	6.3	25	-
7/7/65	10:05	Surface	19.0	8.9	8.6	20	0.6
	10:05	1/2'	--	9.1	7.7	22	-
	(A.M.) 10:05	1'	--	9.1	8.3	23	-
	10:05	1-1/2'	19.0	9.1	8.1	23	-
7/14/65	9:05	Surface	21.0	9.0	5.9	30	1.4
	9:05	1/2'	--	8.9	5.8	27	-
	(A.M.) 9:05	1'	--	8.9	5.9	29	-
	9:05	1-1/2'	20.5	8.9	5.8	26	-
7/19/65	3:00	Surface	24.0	9.5	10.8	30	1.0
	3:00	1/2'	--	9.5	9.9	28	-
	(P.M.) 3:00	1'	--	9.5	9.8	28	-
	3:00	1-1/2'	23.5	9.5	9.4	28	-
7/26/65	1:20	Surface	25.5	9.6	10.0	33	0.8
	1:20	1/2'	--	9.6	9.2	35	-
	(P.M.) 1:20	1'	--	9.6	9.4	32	-
	1:20	1-1/2'	24.5	9.6	9.4	32	-
8/2/65	12:50	Surface	21.5	9.1	10.2	35	0.3
	12:50	1/2'	--	9.3	9.6	35	-
	(P.M.) 12:50	1'	--	9.3	9.5	30	-
	12:50	1-1/2'	21.0	9.3	10.6	36	-
8/9/65	3:10	Surface	27.0	9.7	6.3	31	1.3
	3:10	1/2'	--	9.7	7.6	28	-
	(P.M.) 3:10	1'	--	9.6	8.2	32	-
	3:10	1-1/2'	27.0	9.6	7.5	27	-

TABLE 16 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm $O_2$	Total Alkalinity	Phenolphthalein Alkalinity
8/16/65	3:20	Surface	30.0	9.8	9.3	38	1.8
	3:20	1/2'	--	9.9	10.9	31	-
	(P.M.) 3:20	1'	--	9.8	10.5	34	-
	3:20	1-1/2'	30.0	9.7	10.5	?	-
8/25/65	4:14	Surface	23.0	8.4	14.71	44	1.0
	4:14	1/2'	--	8.3	14.20	45	-
	(P.M.) 4:14	1'	--	8.3	13.08	42	-
	4:14	1-1/2'	22.5	8.3	14.39	42	-
8/31/65	3:19	Surface	13.5	9.0	11.4	33	0.3
	3:19	1/2'	--	8.9	10.0	33	-
	(P.M.) 3:19	1'	--	8.9	9.3	38	-
	3:19	1-1/2'	13.0	8.9	10.7	39	-
9/7/65	10:45	Surface	19.0	8.6	8.0	40	0.0
	10:45	1/2'	--	8.5	8.2	39	-
	(A.M.) 10:45	1'	--	8.5	7.4	45	-
	10:45	1-1/2'	18.5	8.5	7.5	46	-
9/16/65	9:00	Surface	16.0	7.9	3.8	40	0.0
	9:00	1/2'	--	7.9	3.2	41	-
	(A.M.) 9:00	1'	--	7.9	2.9	41	-
	9:00	1-1/2'	16.5	7.9	3.5	41	0.0

TABLE 17

## CORMESE-1 MARSH ECOLOGY

Pond No. - New 17  
Old 8

1965

Temperature, Alkalinity and Oxygen Determinations

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
6/10/65	9:00	Surface	23.5	9.3	6.6	43	0.6
	9:00	1/2'	23.5	9.3	6.4	42	0.6
	9:00	1'	23.5	9.3	6.0	41	0.6
	9:00	1-1/2'	23.6	9.3	5.9	41	0.6
	9:00	2'	23.6	9.2	5.9	40	0.6
	9:00	2-1/2'	23.6	9.1	5.3	45	0.6
	9:00	3'	23.0	7.3	3.3	95	0.0
* 6/21/65	1:25	Surface	25.0	9.9	12.0	23	0.9
	1:25	1/2'	25.0	9.9	13.0	20	-
	1:25	1'	24.5	9.9	13.0	21	-
	1:25	1-1/2'	24.5	9.9	13.5	20	-
	1:25	2'	24.0	9.9	13.5	21	-
	1:25	2-1/2'	22.0	9.8	12.2	21	-
	1:25	3'	21.5	9.8	11.9	21	-
(A.M.)	9:30	Surface	21.0	9.5	8.2	20	0.9
	9:30	1/2'	--	9.4	7.7	22	-
	9:30	1'	--	9.5	7.7	22	-
	9:30	1-1/2'	--	9.5	7.6	21	-
	9:30	2'	--	9.5	7.6	20	-
	9:30	2-1/2'	--	9.1	6.8	25	-
	9:30	3'	20.5	9.1	6.8	25	-
6/28/65	10:20	Surface	18.5	9.3	8.5	20	0.9
	10:20	1/2'	--	9.4	8.1	25	-
	10:20	1'	--	9.4	8.4	23	-
	10:20	1-1/2'	--	9.4	8.1	22	-
	10:20	2'	--	9.3	7.1	26	-
	10:20	2-1/2'	--	9.3	5.1	23	-
	10:20	3'	19.0	9.1	7.6	21	-
(A.M.)	9:20	Surface	22.0	9.4	6.9	28	1.0
	9:20	1/2'	--	9.4	7.2	26	-
	9:20	1'	--	9.4	6.7	24	-
	9:20	1-1/2'	--	9.4	6.7	23	-
	9:20	2'	--	9.4	6.5	26	-
	9:20	2-1/2'	--	9.4	6.8	26	-
	9:20	3'	21.0	9.4	6.6	22	-

TABLE 17 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
7/19/65	3:10	Surface	23.0	9.7	10.8	29	0.9
	3:10	1/2'	--	9.8	8.6	31	-
	3:10	1'	--	9.8	8.2	29	-
	3:10	1-1/2'	--	9.8	9.9	25	-
	3:10	2'	--	9.8	9.0	29	-
	3:10	2-1/2'	--	9.9	8.8	29	-
	3:10	3'	21.0	9.7	8.5	29	-
7/26/65	12:50	Surface	25.5	9.8	8.0	32	0.9
	12:50	1/2'	--	10.0	9.2	25	-
	12:50	1'	--	9.9	9.3	28	-
	12:50	1-1/2'	--	9.9	8.9	29	-
	12:50	2'	--	9.8	8.9	31	-
	12:50	2-1/2'	--	9.8	8.5	32	-
	12:50	3'	24.5	9.4	7.0	40	-
(P.M.) 8/2/65	1:00	Surface	21.0	9.2	9.8	33	0.6
	1:00	1/2'	--	9.2	8.7	38	-
	1:00	1'	--	9.2	8.8	39	-
	1:00	1-1/2'	--	9.2	8.9	39	-
	1:00	2'	--	9.2	9.2	35	-
	1:00	2-1/2'	--	9.4	7.8	34	-
	1:00	3'	20.0	9.0	6.8	38	-
8/9/65	3:25	Surface	27.0	9.7	8.2	27	0.5
	3:25	1/2'	--	9.8	9.0	29	-
	3:25	1'	--	9.8	8.3	31	-
	3:25	1-1/2'	--	9.8	9.8	26	-
	3:25	2'	--	9.8	6.4	28	-
	3:25	2-1/2'	--	9.8	6.5	28	-
	3:25	3'	25.0	9.5	6.3	30	-
(P.M.) 8/16/65	3:30	Surface	30.0	10.1	11.3	32	1.3
	3:30	1/2'	--	10.0	11.3	39	-
	3:30	1'	--	10.0	10.8	37	-
	3:30	1-1/2'	--	10.0	9.2	30	-
	3:30	2'	--	10.1	11.3	32	-
	3:30	2-1/2'	--	10.1	9.2	31	-
	3:30	3'	29.5	9.9	9.5	28	-
(P.M.) 8/23/65	4:30	Surface	23.0	8.7	14.82	34	0.4
	4:30	1/2'	--	8.8	12.21	36	-
	4:30	1'	--	8.8	12.43	37	-
	4:30	1-1/2'	--	8.8	13.51	35	-
	4:30	2'	--	8.7	12.97	30	-
	4:30	2-1/2'	--	8.7	12.43	33	-
	4:30	3'	22.5	8.7	12.32	37	-

TABLE 17 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm $O_2$	Total Alkalinity	Phenolphthalein Alkalinity
8/31/65 (P.M.)	3:25	Surface	13.5	8.9	11.2	40	0.8
	3:25	1/2'	--	9.1	10.2	33	-
	3:25	1'	--	9.1	9.9	31	-
	3:25	1-1/2'	--	9.1	10.2	33	-
	3:25	2'	--	9.1	10.3	31	-
	3:25	2-1/2'	--	9.1	9.9	30	-
	3:25	3'	13.0	9.1	10.5	30	-
9/7/65 (A.M.)	10:05	Surface	18.0	8.9	8.5	33	0.6
	10:05	1/2'	--	9.0	8.6	32	-
	10:05	1'	--	9.0	9.6	35	-
	10:05	1-1/2'	--	9.0	9.0	37	-
	10:05	2'	--	9.0	8.9	31	-
	10:05	2-1/2'	--	9.0	9.3	33	-
	10:05	3'	18.0	9.0	9.8	33	-
9/16/65 (A.M.)	9:15	Surface	16.0	8.5	7.9	29	0.1
	9:15	1/2'	--	8.5	7.5	30	-
	9:15	1'	16.0	8.3	7.1	30	-
	9:15	1-1/2'	--	8.4	7.6	30	-
	9:15	2'	16.5	8.4	7.6	30	-
	9:15	2-1/2'	--	8.4	7.6	30	-
	9:15	3'	17.0	8.4	7.5	30	0.1

TABLE 18

## CORNELL NO. 1 MARSH ECOLOGY

Pond No. - New 18  
Old 6

1965

Temperature, Alkalinity and Oxygen Determinations

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
6/10/65	8:35	Surface	22.6	8.0	4.9	59	0.0
	8:35	1/2'	22.6	8.1	4.0	58	0.0
	(A.M.) 8:35	1'	22.8	8.1	4.6	60	0.0
6/21/65	2:05	Surface	28.0	9.4	14.5	28	0.6
	2:05	1/2'	28.0	9.4	14.5	27	0.6
	(P.M.) 2:05	1'	28.0	9.4	14.5	26	0.6
6/28/65	10:00	Surface	22.0	9.1	9.0	29	0.5
	10:00	1/2'	--	9.1	8.3	29	-
	(A.M.) 10:00	1'	22.0	8.9	8.6	30	-
7/7/65	10:35	Surface	19.5	9.0	9.2	31	0.9
	10:35	1/2'	--	9.0	8.9	27	-
	(A.M.) 10:35	1'	20.0	9.0	8.6	26	-
7/14/65	9:50	Surface	21.5	9.0	8.0	27	0.6
	9:50	1/2'	--	9.1	7.6	23	-
	(A.M.) 9:50	1'	21.5	9.1	7.2	30	-
7/19/65	3:30	Surface	25.0	9.7	11.0	35	1.4
	3:30	1/2'	--	9.8	10.9	33	-
	(P.M.) 3:30	1'	25.0	9.7	10.5	36	-
7/26/65	11:40	Surface	25.0	9.4	9.0	35	0.8
	11:40	1/2'	--	9.4	8.9	27	-
	(A.M.) 11:40	1'	25.0	9.5	9.5	28	-
8/2/65	1:20	Surface	20.5	9.7	11.9	39	0.7
	1:20	1/2'	--	9.7	10.5	37	-
	(P.M.) 1:20	1'	20.5	9.7	11.3	39	-
8/9/65	3:45	Surface	29.0	9.5	10.4	38	0.7
	3:45	1/2'	--	9.6	10.8	32	-
	(P.M.) 3:45	1'	28.0	9.5	11.9	29	-
8/16/65	3:55	Surface	31.0	9.3	9.6	36	0.7
	3:55	1/2'	--	9.3	10.0	38	-
	(P.M.) 3:55	1'	29.0	9.3	10.1	36	-
8/24/65	8:30	Surface	20.0	8.5	10.36	44	0.3
	8:30	1/2'	--	8.5	10.25	37	-
	(A.M.) 8:30	1'	20.0	8.5	9.81	37	-

TABLE 18 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm $O_2$	Total Alkalinity	Phenolphthalein Alkalinity
8/31/65	3:50	Surface	13.5	9.0	14.0	33	0.4
	3:50	1/2'	--	9.1	12.3	33	-
	(P.M.) 3:50	1'	13.0	9.1	10.9	33	-
9/7/65	9:35	Surface	18.0	8.7	8.4	30	0.7
	9:35	1/2'	--	8.7	7.5	42	-
	(A.M.) 9:35	1'	18.0	8.7	7.9	39	-
9/16/65	9:25	Surface	16.0	8.1	7.8	40	0.0
	9:25	1/2'	--	8.1	7.6	40	-
	(A.M.) 9:25	1'	16.0	8.0	6.7	42	0.0

TABLE 19

## CORNELL NO. 1 MARSH ECOLOGY

Pond No. - New 19  
Old 4

1965

Temperature, Alkalinity and Oxygen Determinations

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
6/9/65	1:30	Surface	27.7	9.1	7.7	47	0.55
	1:30	1/2'	27.2	9.1	7.4	48	0.6
	1:30	1'	26.8	9.1	7.4	50	0.6
	1:30	1-1/2'	26.5	9.2	7.3	49	0.6
	1:30	2'	26.2	9.2	7.3	49	0.6
	1:30	2-1/2'	26.0	9.2	7.2	47	0.6
	1:30	3'	25.4	8.6	6.0	60	0.6
(P.M.)	2:15	Surface	25.0	9.6	12.0	21	0.7
	2:15	1/2'	25.0	9.6	12.5	23	-
	2:15	1'	25.0	9.6	12.5	22	-
	2:15	1-1/2'	24.5	9.6	12.7	22	-
	2:15	2'	24.5	9.6	13.0	24	-
	2:15	2-1/2'	24.5	9.6	13.0	23	-
	2:15	3'	24.0	9.6	13.2	21	-
6/21/65	10:15	Surface	22.0	9.4	7.7	19	0.9
	10:15	1/2'	--	9.5	8.5	19	0.6
	10:15	1'	--	9.5	7.9	20	-
	10:15	1-1/2'	--	9.5	8.3	22	-
	10:15	2'	--	9.5	7.1	22	-
	10:15	2-1/2'	--	9.5	7.1	22	-
	10:15	3'	21.5	9.5	7.1	22	-
(A.M.)	1:25	Surface	20.0	9.6	9.0	18	0.7
	1:25	1/2'	--	9.6	9.2	19	-
	1:25	1'	--	9.6	9.0	23	-
	1:25	1-1/2'	--	9.6	8.8	21	-
	1:25	2'	--	9.6	9.0	19	-
	1:25	2-1/2'	--	9.6	9.5	20	-
	1:25	3'	20.0	9.5	8.8	21	-
7/7/65	10:30	Surface	22.0	9.4	7.4	19	1.0
	10:30	1/2'	--	9.5	7.0	21	-
	10:30	1'	--	9.5	7.8	18	-
	10:30	1-1/2'	--	9.5	7.0	20	-
	10:30	2'	--	9.5	7.2	20	-
	10:30	2-1/2'	--	9.5	7.5	20	-
	10:30	3'	21.0	9.5	7.4	28	-
(P.M.)	4:00	Surface	24.0	9.7	9.3	17	0.4
	4:00	1/2'	--	9.9	9.1	18	-
	4:00	1'	--	9.9	9.3	19	-
	4:00	1-1/2'	--	9.9	8.8	18	-
	4:00	2'	--	9.9	9.3	18	-
	4:00	2-1/2'	--	9.9	9.3	19	-
	4:00	3'	22.0	9.9	9.3	21	0.9

TABLE 19 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm $\text{O}_2$	Total Alkalinity	Phenolphthalein Alkalinity
7/26/65	11:25	Surface	25.0	9.8	7.8	25	0.6
	11:25	1/2'	--	9.8	8.2	23	-
	(A.M.) 11:25	1'	--	9.8	9.0	25	-
	11:25	1-1/2'	--	9.8	8.0	23	-
	11:25	2'	--	9.8	8.6	23	-
	11:25	2-1/2'	--	9.8	8.2	22	-
	11:25	3'	24.0	9.8	8.6	23	-
8/2/65	1:30	Surface	21.0	9.6	10.2	34	0.6
	1:30	1/2'	--	9.7	8.2	24	-
	(P.M.) 1:30	1'	--	9.7	9.4	25	-
	1:30	1-1/2'	--	9.7	9.1	27	-
	1:30	2'	--	9.8	8.7	28	-
	1:30	2-1/2'	--	9.7	9.4	31	-
	1:30	3'	21.0	9.8	9.2	35	-
8/9/65	4:00	Surface	27.0	9.9	11.2	25	0.7
	4:00	1/2'	--	9.9	8.5	29	-
	(P.M.) 4:00	1'	--	9.9	9.8	27	-
	4:00	1-1/2'	--	9.9	9.8	26	-
	4:00	2'	--	9.9	9.6	26	-
	4:00	2-1/2'	--	9.9	7.8	21	-
	4:00	3'	26.0	9.9	9.5	21	-
8/16/65	4:00	Surface	30.0	9.6	10.0	28	1.0
	4:00	1/2'	--	9.6	9.2	24	-
	(P.M.) 4:00	1'	--	9.6	9.6	25	-
	4:00	1-1/2'	--	9.6	9.8	27	-
	4:00	2'	--	9.6	10.4	26	-
	4:00	2-1/2'	--	9.6	10.0	25	-
	4:00	3'	29.5	9.6	9.5	24	-
8/24/65	8:40	Surface	20.0	8.8	9.27	23	0.8
	8:40	1/2'	--	8.8	9.27	26	-
	(A.M.) 8:40	1'	--	8.8	8.94	24	-
	8:40	1-1/2'	--	9.0	9.27	23	-
	8:40	2'	--	9.0	9.16	23	-
	8:40	2-1/2'	--	9.0	8.72	26	-
	8:40	3'	20.6	9.0	8.7	26	-
8/31/65	4:00	Surface	13.5	9.6	12.1	20	0.5
	4:00	1/2'	--	9.7	10.5	20	-
	(P.M.) 4:00	1'	--	9.7	10.0	20	-
	4:00	1-1/2'	--	9.7	10.5	20	-
	4:00	2'	--	9.7	9.7	19	-
	4:00	2-1/2'	--	9.7	8.4	19	-
	4:00	3'	13.0	9.7	9.3	19	-

TABLE 19 (Continued)

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
9/7/65	9:25	Surface	18.0	9.3	9.3	27	0.8
	9:25	1/2'	--	9.3	8.1	26	-
	(A.M.) 9:25	1'	--	9.3	8.9	24	-
	9:25	1-1/2'	--	9.3	8.0	26	-
	9:25	2'	--	9.3	8.7	27	-
	9:25	2-1/2'	--	9.3	8.7	27	-
	9:25	3'	17.5	9.3	8.7	27	-
9/16/65	9:45	Surface	16.0	9.0	8.5	18	0.1
	9:45	1/2'	--	9.1	8.1	19	-
	(A.M.) 9:45	1'	16.0	9.1	6.2	21	-
	9:45	1-1/2'	--	9.0	8.1	21	-
	9:45	2'	16.5	9.2	8.3	21	-
	9:45	2-1/2'	--	9.1	8.2	20	-
	9:45	3'	17.0	9.1	7.9	21	0.2

TABLE 20

## CORNELL NO. 1 MARSH ECOLOGY

Pond No. - New 20  
Old 2

1965

Temperature, Alkalinity and Oxygen Determinations

Date	Time	Depth (feet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphthalein Alkalinity
6/9/65	9:40	Surface	24.1	8.9	7.4	55	0.5
	9:40	1/2'	24.1	8.9	7.2	54	0.5
	9:40	1'	24.1	8.9	7.2	52	0.5
	9:40	1-1/2'	24.0	8.9	7.0	51	0.5
	9:40	2'	23.9	8.8	6.9	60	0.5
6/21/65	2:35	Surface	25.5	9.7	12.5	22	0.7
	2:35	1/2'	25.5	9.7	13.5	22	-
	(P.M.) 2:35	1'	25.5	9.7	13.5	22	-
	2:35	1-1/2'	25.5	9.7	12.5	22	-
	2:35	2'	25.0	9.7	12.5	23	-
6/28/65	10:30	Surface	22.0	9.4	8.3	23	0.8
	10:30	1/2'	--	9.5	7.6	23	0.8
	(A.M.) 10:30	1'	--	9.5	8.0	22	-
	10:30	1-1/2'	--	9.5	8.4	25	-
	10:30	2'	22.0	9.5	8.4	25	-
7/7/65	1:40	Surface	20.0	9.7	9.8	21	0.8
	1:40	1/2'	--	9.6	8.8	20	-
	(P.M.) 1:40	1'	--	9.6	8.8	21	-
	1:40	1-1/2'	--	9.6	8.5	23	-
	1:40	2'	20.0	9.6	8.9	21	-
7/14/65	11:05	Surface	23.0	9.5	7.8	24	0.3
	11:05	1/2'	--	9.6	7.4	26	-
	(A.M.) 11:05	1'	--	9.6	7.4	23	-
	11:05	1-1/2'	--	9.6	6.9	25	-
	11:05	2'	23.0	9.6	7.9	26	-
7/19/65	4:25	Surface	24.0	9.4	11.0	22	0.9
	4:25	1/2'	--	9.5	10.6	22	-
	(P.M.) 4:25	1'	--	9.5	10.1	23	-
	4:25	1-1/2'	--	9.6	11.3	23	-
	4:25	2'	23.5	9.5	10.5	26	0.9
7/26/65	10:30	Surface	24.5	9.4	7.6	24	0.7
	10:30	1/2'	--	9.4	7.2	26	-
	(A.M.) 10:30	1'	--	9.4	8.3	27	-
	10:30	1-1/2'	--	9.4	7.7	24	-
	10:30	2'	24.0	9.4	7.2	24	-
8/2/65	2:00	Surface	21.0	9.5	9.9	41	0.8
	2:00	1/2'	--	9.5	9.8	32	-
	(P.M.) 2:00	1'	--	9.5	9.5	29	-
	2:00	1-1/2'	--	9.6	9.7	35	-
	2:00	2'	20.0	9.6	9.5	33	-

TABLE 20 (Continued)

Date	Time	Depth (Ftet)	Temperature Deg. C.	pH	ppm O <sub>2</sub>	Total Alkalinity	Phenolphth Alkali
8/9/65	4:30	Surface	28.0	9.5	10.1	26	1.2
	4:30	1/2'	--	9.5	9.3	28	-
	4:30	1'	--	9.4	8.1	23	-
	4:30	1-1/2'	--	9.4	9.0	30	-
	4:30	2'	28.0	9.4	8.7	29	-
8/16/65	4:15	Surface	29.5	9.5	9.5	30	1.3
	4:15	1/2'	--	9.5	10.1	30	-
	4:15	1'	--	9.6	11.7	27	-
	4:15	1-1/2'	--	9.6	11.7	28	-
	4:15	2'	29.0	9.6	11.0	29	-
8/24/65	9:10	Surface	21.0	8.9	8.50	30	1.3
	9:10	1/2'	--	8.9	7.85	32	-
	9:10	1'	--	8.9	8.18	30	-
	9:10	1-1/2'	--	8.9	10.68	28	-
	9:10	2'	20.5	8.9	9.16	29	-
8/31/65	4:12	Surface	13.5	9.5	13.1	25	0.8
	4:12	1/2'	--	9.5	10.9	24	-
	4:12	1'	--	9.5	10.3	29	-
	4:12	1-1/2'	--	9.5	11.3	25	-
	4:12	2'	13.0	9.5	9.6	23	-
9/7/65	9:10	Surface	18.0	8.9	8.3	23	0.4
	9:10	1/2'	--	9.0	7.8	27	-
	9:10	1'	--	9.0	7.4	27	-
	9:10	1-1/2'	--	9.0	7.2	27	-
	9:10	2'	17.5	9.0	7.5	29	-
9/15/65	9:55	Surface	16.0	8.5	5.5	28	0.2
	9:55	1/2'	--	8.6	8.1	29	-
	9:55	1'	--	8.6	8.1	29	-
	9:55	1-1/2'	--	8.6	8.3	29	-
	9:55	2'	17.0	8.6	7.5	29	0.3